



HandsOn
NASHVILLE

Home Energy Savings **HANDBOOK**



HOME ENERGY SAVINGS PROGRAM

Homeowner Application

STEP 1

Applicant Information

Applicant Name: _____

Applicant Address: _____

Applicant Phone Number: _____

Number of residents in the home: _____

Housing Information

Type of Structure: (circle one): One Story Two Story Bsmt (finished/Wout) CS

Exterior Type: _____

Square Footage: _____

Income Documentation:

	Name	Birthday	Relation to Applicant	Monthly Income
1.	_____	_____	_____	_____
2.	_____	_____	_____	_____
3.	_____	_____	_____	_____
4.	_____	_____	_____	_____
5.	_____	_____	_____	_____

Applicant Certification Statement

I certify that all of the information provided in this application for weatherization assistance is true and correct. I understand that anyone who fraudulently covers up a material fact or who knowingly gives false information for the receipt of the Home Energy Savings Program is liable upon conviction to a fine of \$10,000 or imprisonment for not more than five years, or both. I authorize the verification of any and all information provided herein to determine my eligibility, and acknowledge that I have been informed of my appeal rights. I understand that I will be notified in writing of my eligibility status. Pursuant to federal law (5 United States Code 552 (b)(6) and 10 Code of Federal Regulations 600.153(f)), identifying information provided by you for determination of your eligibility for the Home Energy Savings Program and for the provision of services from the program will be considered confidential and, unless otherwise authorized or required by law, will not be shared with any other persons or agencies except for purposes directly related to the administration of the Home Energy Savings Program.

Applicant Signature

Date

HOME ENERGY SAVINGS PROGRAM

Agreement to Participate

STEP 2

I agree to participate on a voluntary basis in the Home Energy Savings Program (HES) being conducted by Hands On Nashville (HON). As used in this agreement, "I" shall be deemed to mean both the owner and the tenant unless specified otherwise. The HES Program is designed to provide Participants like me with an in Home Energy Evaluation, which includes an "Evaluation Report" identifying recommended measures for installing the recommended scope of work. My single-family dwelling (Residence) will be used in the HES Program for data collection and analysis.

I have had the HES Program explained to me, including it being limited to identifying energy efficiency measures, and I agree to participate in the HES Program under the following conditions:

I agree to release, indemnify, defend, and save harmless HON, volunteers and contractors from all liability, claims, demands, causes of action, costs, or losses for personal injuries, property damage, special damages, consequential damages, indirect damages, or loss of life or property, sustained by me, my agents, my family or third parties arising out of or in any way connected with the in-home energy evaluation, inspection, the evaluation report, the recommended measures, or the installation, testing operation, maintenance, repair, replacement, removal, defect, or failure of my energy efficiency measures. The obligations of this section shall survive termination of this agreement.

Participant Signature

Date

HES Representative Signature

Date

HOME ENERGY SAVINGS PROGRAM

Photo/Audio/Video Release Form

STEP 3

In consideration of the opportunity to participate in audio/video taping and photography and to provide statements relating to Hands On Nashville's Home Energy Savings Program (HES), I _____, [add your name] for myself and, in the case of a minor's participation _____ [Add the name of the minor for whom you are the parent/guardian, if applicable] (the "Minor"), for myself and the Minor in my capacity as the Minor's parent/guardian, agree as follows:

1. I hereby consent to the recording of statements, photographs, and audio/video footage taken of me and/or the Minor by Hands On Nashville and its contractors.
2. All statements, photographs, and/or audio/video recordings taken of the me and/or the Minor by Hands On Nashville and its contractors, may be used by Hands On Nashville for promotional, commercial, or other purposes as determined by Hands On Nashville anywhere in the world in its sole discretion. Neither I nor the Minor shall have any right to control the use or publication by Hands On Nashville of the statements, photographs, and audio/video recordings.
3. All statements, photographs, and audio/video recordings taken of me and/or the Minor by Hands On Nashville and its contractors, shall be the sole property of Hands On Nashville. Neither I nor the Minor shall receive any compensation in connection with use of these statements, photographs, and audio/video recordings for promotional, commercial, or other purposes.
4. On behalf of myself and/or the Minor, I hereby release, waive and discharge any claims of any kind or nature arising out of or relating to the use of the statements, photographs, and audio/video recordings against Hands On Nashville or any person or firm authorized by Hands On Nashville to publish said materials ("Publisher"). Such release, waiver, and discharge shall also extend to all affiliated companies, shareholders, directors, officers, employees, agents, and assigns of Hands On Nashville and any Publisher.
5. This Release shall be binding upon myself and/or the Minor and our respective successors, heirs, assignees, executors, administrators, spouse, and next of kin.
6. I HAVE READ THIS DOCUMENT AND I UNDERSTAND THAT I GIVE UP SUBSTANTIAL RIGHTS ON BEHALF OF MYSELF AND/OR THE MINOR (INCLUDING RIGHTS RELATING TO PUBLICITY AND PRIVACY WITH RESPECT TO THE PSA/COMMERICAL USE OF ANY STATEMENTS, PHOTOGRAPHS, AND AUDIO/ VIDEO RECORDINGS) AND I SIGN THIS RELEASE FREELY AND VOLUNTARILY.

Date

Name of Minor (under age 18)

Your Name

HOME ENERGY SAVINGS PROGRAM

Timeline and Expectations

STEP 4

FIRST visit: Hands On Nashville (HON) Home Consultation (1.5 hours)

During this visit, the homeowner will complete a program application and learn the program process. HON will complete a visual energy audit to create a scope of work for volunteers or contractors to complete on your home. A project date is confirmed during this time.

Please wait for Temp Control to call you to set up an appointment.

Homeowner Responsibilities *in Preparation for* the Project:

1. Please clear any items over floor vents for ease of access to test ducts.
2. Clear attic storage to center of attic for optimal attic insulation installation.
3. If attic access is in closet, clear all items in closet for optimal project performance.

Cancellations must be made one week in advance: Canceling within a week results in forfeit of program participation & benefits.

SECOND visit: PROJECT Date & Inspection

Volunteers:

Project Leaders arrive at 8 a.m. to set up. Volunteers arrive at 9 a.m. Projects are completed by 1 p.m. Typically, five to 10 volunteers will help complete the scope of work on your home.

Homeowner Responsibilities *During* the Project:

1. Place all pets in behind closed doors in a room that will not be accessed or secure outside.
2. No smoking in the home while volunteers are working.
3. You and/or any family members are welcome to help on project day, if able.
4. Engage with volunteers HON staff, and contractors: We invite you to eat lunch with volunteers and ask them why they signed up for the project.
5. Please remember to thank the volunteers for their hard work on your home. They have dedicated their day to make your home more energy efficient.

I have read the timeline and expectations, and I agree to participate.

Participant Signature

Date

HOME ENERGY SAVINGS PROGRAM

Energy Data Release Form

STEP 5

Name: _____

Home Street Address: _____

City, State & Zip: _____

Phone Number: _____

13 Digit Account Number: _____

By signing below, I allow for NES and Hands On Nashville to utilize my electricity to analyze and track energy savings associated with the above address.

Participant Signature

Date

HOME ENERGY SAVINGS PROGRAM

Gas Data Release Form

STEP 6

Name: _____

Home Street Address: _____

City, State & Zip: _____

Phone Number: _____

Account Number: _____

By signing below, I allow for NES and Hands On Nashville to utilize my electricity to analyze and track energy savings associated with the above address.

Participant Signature

Date

HOME ENERGY SAVINGS PROGRAM

Water Data Release Form

STEP 7

Name: _____

Home Street Address: _____

City, State & Zip: _____

Phone Number: _____

Account Number: _____

By signing below, I allow for NES and Hands On Nashville to utilize my electricity to analyze and track energy savings associated with the above address.

Participant Signature

Date

HOME ENERGY SAVINGS PROGRAM

Scope of Work Agreement

STEP 8

Install the following items:

- ☐ Compact fluorescent lights.
- ☐ Window and door caulking.
- ☐ Low-flow sink faucet aerators in kitchen & bathroom.
- ☐ Reusable air filter.
- ☐ Weather strips and sweeps on doors.
- ☐ Blown-in attic insulation
- ☐ Radiant barrier heat
- ☐ Insulated water pipes
- ☐ Tape and mastic on HVAC ducts

Provide the following items:

- ☐ Fire extinguisher
- ☐ CO detector
- ☐ Smoke detector
- ☐ Free HVAC cleaning (from Temp Control; they will call for a checkup.)
- ☐ Fridge/Freezer thermometer

_____ The HES Program is absolutely FREE to the homeowner.

_____ Upon completion of our scope of work, HON is no longer obligated to make any repairs or complete additional work on the home or return to do routine maintenance.

_____ The Home Energy Savings Program is a one-day project; HON provides no maintenance visits for installed measures.

_____ Volunteers will be working in your home. The homeowner must be engaged on project day and participate alongside the volunteers, when able.

_____ Project cancelation less than 48 hours before the project date results in no project reschedule or service. No show for Temp Control appointment results in no service.

_____ The homeowner will be asked to provide the names and phone numbers of two other homeowners who may qualify and be interested in applying for the HES Program.

Please sign below if you have read and understand these terms and conditions entirely:

Homeowner Signature

Date

HES Representative Signature

Date

HOME ENERGY SAVINGS PROGRAM

Homeowner Pledge

STEP 9

I, _____, take the Home Energy Savings Pledge on _____
in an effort to save money on my utility bills. I will make a conscious effort to:

- 1) Turn off lights when I leave a room.
- 2) Keep my air conditioning set at 78 degrees in the summer.
- 3) Keep my heat set at 68 degrees in the winter.
- 4) Turn off the TV when I am not watching it.
- 5) Close my blinds during the summer to block out the heat.
- 6) Shut off the water when I am brushing my teeth or face.
- 7) Take shorter showers (7 minutes or less).
- 8) Dry my clothes outside or on a line.
- 9) Wash my clothes with cold or warm water.
- 10) Look at my utility bills each month to know what my usage is.

By doing the above actions, I will help reduce my impact on the environment and save money on my utility bills. I will do my best to fulfill my Home Energy Savings Pledge and know that every small action will help me reach my goals.

Homeowner Signature

HES Representative

HOME ENERGY SAVINGS PROGRAM

Homeowner-to-Homeowner

Referral Program

In order for Hands On Nashville's Home Energy Savings (HES) Program to continue serving homeowners in Nashville, we must reach homeowners who qualify and are interested in the program.

As part of your agreement to participate, you are asked to provide the names and phone numbers of at least three homeowners who may qualify. In order to qualify, a homeowner must meet the following criteria:

The referral must be a homeowner. HES currently does not serve residents who are renters.

Please inform each referral that an HES representative will be contacting them in the near future. This form will be collected on the day of your scheduled project.

1.	<hr/>	<hr/>	<hr/>
	Name	Phone Number	Address
2.	<hr/>	<hr/>	<hr/>
	Name	Phone Number	Address
3.	<hr/>	<hr/>	<hr/>
	Name	Phone Number	Address

I agree that I have done my best to provide eligible homeowners.

Participant signature

Date

HOME ENERGY SAVINGS PROGRAM

Audit Evaluation Form

STEP 10

Homeowner's **WINTER** Temp _____ **SUMMER** Temp _____

How often does homeowner change the filter? _____

Homeowner's **WINTER** Bills _____ **SUMMER** Bills _____

Gas type: ☐ Heat ☐ Stove ☐ Water Heater

☐ Central Heat and Air HVAC unit age and location _____

Last time serviced: _____

☐ Space heaters Quantity _____ ☐ Kerosene

Water heater age _____ ☐ Conditioned Space

Year home was built: _____ How long homeowner has lived in home: _____

Home dimensions/sq. footage: _____ Number of bedrooms: _____

Attic location _____ Ladder Hatch Existing insulation depth: _____

☐ Pets ☐ Smoker Coldest/draftiest areas in home: _____

☐ Broken windows Size: _____ ☐ Window AC units

Good water pressure Shower head type and quantity: _____

Filter dimension (circle one): 20x20 20x25 20x30 other: _____

When does NES bill arrive? _____

Pictures: homeowner portrait front of house facade

Give HON business card (3 total: 1 for homeowner & 2 for referrals)

HOMEOWNER BIO:

Nashville native

Type of work: _____

Hobbies: _____

Notes: _____

HOME NEEDS:

- CO detectors

- ☐ Smoke detectors

☐ Fire extinguisher

* Remind to recycle CFLs

Scope of work notes:

KITCHEN	BED	BATH	LIVING	OTHER



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Home Energy Savings HANDBOOK



Understanding the HES Scope of Work

Understanding Energy Bill Savings and Using Savings Calculator

What You Can Do to Continue Saving

- 10 Things You Can Do Year Round to Save
- Seasonal Checklist

Helpful Additional Resources

About Hands On Nashville:

Hands On Nashville (HON) works to address critical issues facing the Middle Tennessee community through volunteer-centric programming. Annually, HON connects thousands of volunteers to service opportunities supporting area nonprofits as well as its programs in urban agriculture, home energy savings, youth leadership development and support of public education. Learn more at HON.org.

UNDERSTANDING The HES Scope of Work

Below is a checklist of items volunteers upgraded or installed during your Home Energy Savings Project. For tips on maintaining your HES installments, visit the page 17.

Health & Safety

These installments aim to help protect your home from dangers of fire and carbon monoxide poisoning.

- ☐ Smoke detector
- ☐ Fire extinguisher
- ☐ CO detector

Air Sealing

These measures help conditioned air from leaking out of your home. This also prevents outside air from entering your home.

- ☐ Interior caulk
- ☐ Spray foam
- ☐ Door weatherstrip
- ☐ Door sweep
- ☐ 1/2" weatherstrip
- ☐ AC window kit
- ☐ Energy Lid (box placed over attic access to seal attic)
- ☐ Mastic

Insulation

These measures help your heating and air-conditioning systems work more efficiently. They prevent drafts and uneven temperatures.

- ☐ Bags of Insulation
- ☐ Radiant Barrier
- ☐ R19 Batt

Water

These measures reduce the amount of water flowing out of your home. They also keep water pressure the same.

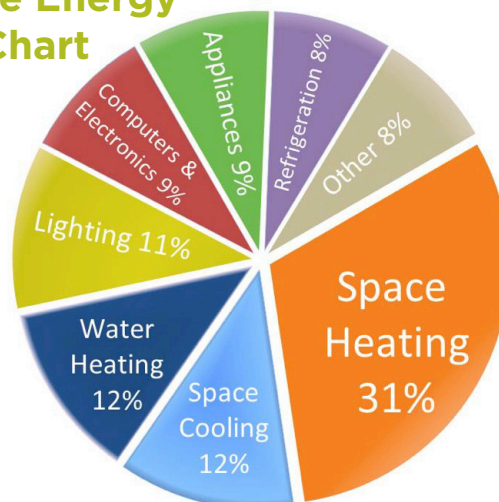
- ☐ Low-flow sink aerator
- ☐ Low-flow showerhead
- ☐ Pipe wrap
- ☐ Toilet Tank Bank
- ☐ Shower Timer

Energy

These measures reduce the amount of energy used in your home.

- ☐ Air filter (20x20)- change every month
- ☐ Air filter (20x25)- change every month
- ☐ Air filter (20x30) - change every month
- ☐ CFL light bulbs
- ☐ Clothes line
- ☐ Fridge thermometers
- ☐ Thermometer plates
- ☐ Space heater(s)

**Home Energy
Pie Chart**



UNDERSTANDING The HES Scope of Work

Home Care & Maintenance Plan – To Do List

Follow these best practices for maintaining items installed during your HES project!



Smoke Detectors: Replace batteries once a year. Change smoke detector at least once at every ten years.

Reusable Air Filter: Take filter out, shake out loose dust, and clean once a month with water in tub or with garden hose. Dry completely before using.

CO Detector: Take action right away if the alarm sounds; carbon monoxide is a harmful and deadly gas. It is important to read the instructions and know the symptoms of CO exposure.

Compact Florescent Light (CFLs) bulbs: Recycle CFL's at local hardware or general stores when they burn out.

Temperature Light Plate Switch: Remember, the number on the left is the temperature in Fahrenheit and the number on the right is the percent humidity in the home.

Temperature:

- In the winter set your home to 68 degrees
- In the summer, set your home to 78 degrees

Humidity:

- A healthy humidity level is between 30-50%.
- If your humidity is sustained at 70% or higher, mold issues may become a concern.
- Make sure to use a dehumidifier to reduce the humidity levels.



AC Window Kit: The plastic channel sticks and stays on the wall. The removable plastic strip that fits in the channel snaps the plastic sheet on.

*During the summer, remove bottom sheet and store the strips in the channels.

Fire Extinguisher: Place the extinguisher where you are able to access it easily. It is rated for regular, oil based, and chemical fires. Replace after usable date expires.



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UNDERSTANDING Energy Bill Savings

NES 1214 CHURCH STREET, NASHVILLE, TN 37246
nespower.com

Customer Name: SMITH, JOHN
Service Address: 1234 ANYSTREET ST
Service Period: 09/07/12 - 10/05/12
Rate Class: RESIDENTIAL
Account Number: 1234567-7654321
Meter Number: 123456
District Number: 15

Customer Relations (615) 736-6900
Report an Outage (615) 234-0000

TOTAL BALANCE DUE: \$ 28.86
DUE DATE: 10/25/12

USAGE HISTORY
Current kWh Reading: 15473 read 10/05/12
Previous kWh Reading: 15291 read 09/07/12
Next Scheduled Reading: 11/06/12

ACCOUNT BALANCE
Electric Power *

TOTAL BALANCE DUE 10/25/12

The TVA Fuel Cost Adjustment this month increases your bill by \$1.28.

* The Electric Power charge includes a TVA Fuel Cost Adjustment of \$11.83 and an energy charge of \$0.0935.

This graph shows your energy use over the past year.

Your Detailed Usage by Month

	This Month	Last Month	Last Year
kWh	182	294	137
Billing Days	28	32	29
Degree Days	152	420	141
Charges	\$28.86	\$40.37	\$24.37

This section explains the seasonal rates and standard charges.

Degree days are based on how much the average daily outdoor temperature varies from 65 degrees, the standard temperature.

This table allows you to compare your energy use monthly charges.

Thank you for your prompt payments! Customers who pay as quickly as you help keep electric rates low.

Please detach and return the bottom portion with your payment. When paying in person, please bring the entire bill.

Account Number: 1234567-7654321
Meter Number: 123456

TOTAL DUE BY 10/25/12: \$ 28.86
Amount Due After 10/25/12: \$ 30.30

0 1 2 3 4 5 6 7 8 9

SMITH, JOHN
1234 ANYSTREET ST
NASHVILLE, TN 37203-6620

NASHVILLE ELECTRIC SERVICE
1214 CHURCH STREET
NASHVILLE, TN 37246-0003

7 107273904816540000140620000028860000000000000011176001

What is a kWh?

This energy bill uses kWh to show you how much energy you use each month. A kWh stands for kilowatt-hour.

How much does it cost?

A kilowatt-hour costs about 10 cents here in Nashville. Use the Electricity Cost Calculator provided to see how much your appliances cost. The less energy you use, the less kWh you will be charged for.

For more information on kWh, visit page XX.

UNDERSTANDING Energy Bill Savings

Savings Calculator

Use the table below to record the “Amount Due” each month for your utility bills and add them together each month. Documenting each bill and seeing your bills change in one place will make a difference in the expense. On average, energy improvements made during Home Energy Savings projects result in a 15% decrease in utility bills by making a few changes.

	Piedmont Gas	Metro Water	NES	TOTAL	Estimated savings multiply by .65 to estimate a 20% reduction
January					
February					
March					
April					
May					
June					
July					
August					
September					
October					
November					
December					

YEAR END TOTAL= _____

*We recommend you spend part of your savings on an annual HVAC Tune-Up because the furnace is the most expensive appliance in your home.

Wouldn't it be easier to multiply year total by 15% to estimate your savings?

WHAT YOU CAN DO TO Continue Saving



- 1** Turn off lights when I leave a room.
- 2** Keep my air conditioning set at **78 degrees** in the summer.
- 3** Keep my heat set at **68 degrees** in the winter.
- 4** Turn off the TV when I am not watching it.
- 5** Close my blinds during the summer to block out the heat.
- 6** Shut off the water when I am brushing my teeth or face.
- 7** Take shorter showers (7 minutes or less).
- 8** Dry my clothes outside or on a line.
- 9** Wash my clothes with cold or warm water.
- 10** Look at my utility bills each month to know what my usage is.



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WHAT YOU CAN DO TO Continue Saving

Year-Round Energy Action Checklist



TURN ELECTRONICS OFF

Turn off and unplug appliances like TVs, toasters, and lights when you aren't using them.



REMOVE LINT FROM DRYER

Built up dryer lint can cause your dryer to work harder to dry your clothes, which means it uses more energy and costs more to run. It can also shorten the lifespan of the appliance.



WASH LAUNDRY WITH COLD WATER

Wash your clothes on cold with cold water detergent. This saves money on heating water. Do full loads of laundry. Filling up your washing machine with water requires energy, and it's a waste if done for a partial load.



CLEAN LIGHT BULBS

Vacuuming and wiping clean light bulbs and lighting fixtures can also help save energy. Dust and kitchen grease can build up and reduce the bulbs' brightness, requiring you to turn on more fixtures to get the light you need.



CLEAN FILTERS

Clean furnace air filters montly. A clean filter saves 5% on heating costs and saves the life of you A/C unit.



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Place your WINTER bills here

NES	Metro Water	Piedmont	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	January
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	February
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	March



Check off each bill
once you add
it to your
Savings Calculator.

WHAT YOU CAN DO TO Continue Saving

Winter Energy Action Checklist

☐ LOWER YOUR THERMOSTAT TO 68 DEGREES*

For every degree you lower the thermostat, you can save 1% on your heating bill. Changing your thermostat is the #1 way to save money on your NES Bill.



☐ KEEP YOUR VENTS CLEAR

Remove furniture or items that block heating vents to optimize airflow. Heating and cooling the home accounts for 50% of your bill, so don't make it work harder than it has to.

☐ OPEN CURTAINS AND BLINDS

Make the most of natural sunlight in the winter by opening window coverings. The heat of the sunlight can warm your home.

☐ SECURE WINDOWS

Make sure all windows are locked shut to reduce air leakage.

Helpful tips

- Use kerosene or infrared space heaters to feel warmer. LOWER your thermostat while using these appliances or you are wasting money!
- Drink warm liquids, like hot chocolate, to warm the body and mind!
- BUY RIGHT When buying new appliances, choose ENERGY STAR-certified models. A new ENERGY STAR refrigerator uses about 20 percent less energy than a standard new refrigerator, and 46 percent less than one made in 1980. A new Energy Star® clothes washer uses nearly 50 percent less energy than a standard washer.

"Energy Tips." Wakefield Municipal Gas and Light Department. n.d. Web. 27 July 2014.



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Place your SPRING bills here

NES	Metro Water	Piedmont	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	April
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	May
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	June



Check off each bill once you add it to your Savings Calculator.

WHAT YOU CAN DO TO Continue Saving

Spring Energy Action Checklist

☐ **CHANGE CEILING FAN TO COUNTER-CLOCKWISE***

When you're doing your spring cleaning, make sure all the fans are working properly and are dust-free. During the warm months, switch the direction to counter-clockwise and draw air upward, cooling the room and ensuring constant airflow.

☐ **CLEAN FRIDGE COILS**

Your fridge uses the most electricity of appliances in the home. When dust builds up on your refrigerator condenser coils, the motor works harder and uses more electricity. As part of your spring-cleaning routine, make sure the coils are cleaned so that air can circulate freely.

☐ **LINE DRY CLOTHES**

Use an interior or exterior clothes line to dry your clothes instead of an electric dryer.



☐ **CLOSE WINDOWS & CURTAINS AT DAYTIME**

Your home warms up during the day. Keep heat out by closing windows & curtains in the morning to keep the cool air in and the hot air out.

☐ **OPEN WINDOWS AT NIGHT***

Turn off your thermostat, take off your storm windows, put in screens and open up the windows to get your house to a comfortable temperature. Open opposite windows to optimize cross ventilation.

"Energy Tips." Wakefield Municipal Gas and Light Department. n.d. Web. 27 July 2014.

Place your SUMMER bills here

NES	Metro Water	Piedmont	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	July
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	August
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	September



Check off each bill
once you add
it to your
Savings Calculator.

WHAT YOU CAN DO TO Continue Saving

Summer Energy Action Checklist



RAISE YOUR THERMOSTAT TO 78 DEGREES

This is the #1 way to lower your NES bill. For every degree you lower your thermostat, you'll spend 1% more on your light bill.



SHUT THE SHADES

Shut the curtains during the hottest time of day or when you're leaving for work in the morning.



TURN YOUR AIR CONDITIONER OFF AT NIGHT

During the evening hours, turn off the air conditioner and open the windows.

Helpful tip

- Get your furnace and air conditioner tuned up twice a year. This ensures your unit is running as efficiently as possible. This results in lower utility bills and extends the life of your unit. An average air conditioner unit costs \$6,000 to \$8,000.

"Energy Tips." Wakefield Municipal Gas and Light Department. n.d. Web. 27 July 2014.



Place your FALL bills here

NES	Metro Water	Piedmont	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	October
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	November
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	December



Check off each bill once you add it to your Savings Calculator.

WHAT YOU CAN DO TO Continue Saving

Fall Energy Action Checklist



CLEAN GUTTERS*

Clean leaves out of your gutters and prevent roof damage.



SAFETY CHECK

Check the batteries on your smoke detectors and CO detectors. Fire extinguishers expire, so check the pressure gauge on yours to make sure it's still good to use. If the gauge is in any color but green, you need to replace it.



MOTION SENSOR BULBS

Consider installing motion sensors on the porch lights.

"Energy Tips." Wakefield Municipal Gas and Light Department. n.d. Web. 27 July 2014.

HELPFUL Community Resources

The following organizations provide assistance for homeowners.

NeedLink Nashville:

Contact: (615) 269-6835
Address: 295 Plus Park Blvd. Nashville, TN 37217

For 100 years, NeedLink Nashville has helped neighbors meet their most basic needs in times of financial crisis. NeedLink provides 4,000 families with food, heat, water, and hope every year.



Habitat for Humanity of Greater Nashville Restore Nashville:

Donation Pick-up: (615) 942-1290
Offers gently used items for home and office.

United Way of Greater Nashville:

Contact: (800) 318-9335
250 Venture Circle Nashville, TN 37228
When you call, you'll get a real person who is trained to help you sort out your needs, and then give you phone numbers and addresses of the closest places where you can get help.

Mid-Cumberland - Meals On Wheels

Contact: (615) 331-6033
1101 Kermit Drive, Suite 300 Nashville, TN 37217
Meals-on-Wheels has been providing healthy home-delivered and café-style meals to Middle Tennessee seniors, age 60 and over, for more than 30 years. Seniors who are physically able enjoy their meal at congregate sites. Homebound seniors have their meals delivered to their homes.

FiftyForward

Contact: (615) 743-3400
174 Rains Avenue Nashville, TN 37203
From 8:30 a.m. to 4:30 p.m. Monday through Friday, and on occasional evenings, the senior center bustles with a variety of programs and classes. Among the most popular are computer lessons, SilverSneakers® Fitness Program, yoga, men's group knitting and crocheting, scrapbooking, Spanish conversation, genealogy, book club, and a writer's group.

Rebuilding Together Nashville

Contact info: (615) 891-1235
Provides structural rebuilding services completed by volunteers. Call to learn more and get an application.

FREE Help with Your Finances The Financial Empowerment Center offers FREE financial counseling.

Trained financial counselors can help you:

- Manage bills
- Decrease your debt
- Improve your credit
- Increase your savings - And More!

Confidential: Meet one-on-one with a counselor.

Convenient: Multiple locations in Nashville.
West Nashville location: St. Luke's Community House
5601 New York Avenue, 37209
First and third Tuesday each month
11:30 a.m. —5:30 p.m.

Affordable: All services are free – regardless of your income.

Languages: Services are available in English and Spanish.

Call 2-1-1 to make an appointment with a financial counselor.



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HELPFUL Community Resources

The following businesses may be able to help you with home repairs. Please tell each contact below you were referred by Hands On Nashville's Home Energy Savings Program.

Hands On Nashville:

For general questions and information about your project or inspection.

Contact: Josef Kaul, Sustainability Manager
(615) 298-1108 EXT. 401

Heating & Cooling:

Temp Control, LLC
Contact: (615) 837-4449

Roofing:

Roof Doctors, LLC
Contact: (615) 448-6349

Plumbing:

M.J. Frick Co.
Contact: (615) 249-8824

Electrical:

Edwards Electric
Contact: (615) 256-6196



HELPFUL

Resources for Energy Savings

How Electricity is Measured

A kilowatt-hour (kWh) is a unit of energy equal to 1,000 watt-hours. If energy is being used over a period of time, like your home energy, the total energy in kilowatt-hours is the product of the power in kilowatts and the time in hours.

A typical Nashville home uses 43 kWh each day. That is roughly 1,800 Watts each hour.

W

Watt= 1 watt



60 W
A 60 watt light bulb uses 60 watts of energy in 1 hour.

kW

Kilowatt= 1,000 watts



1.8 kW
A typical Nashville home uses 1.8 kilowatts each hour.

How do I save money on electricity?

The less energy you use, the fewer kWh you pay for each month, resulting in smaller bills.

How does air enter and exit my home?

Stack Effect is the movement of air into and out of buildings.

During the **WINTER**, warm indoor air rises up and escapes through windows, vent openings, or into your attic. Cold air comes in through either open doors, windows, or other openings and leaks.

During **SUMMER** months, cooled indoor air escapes and warm air tries to enter the home.